V3

Guide to:

- Assembly
- Battery & Charger
- Owner Registration
- First-Time Out

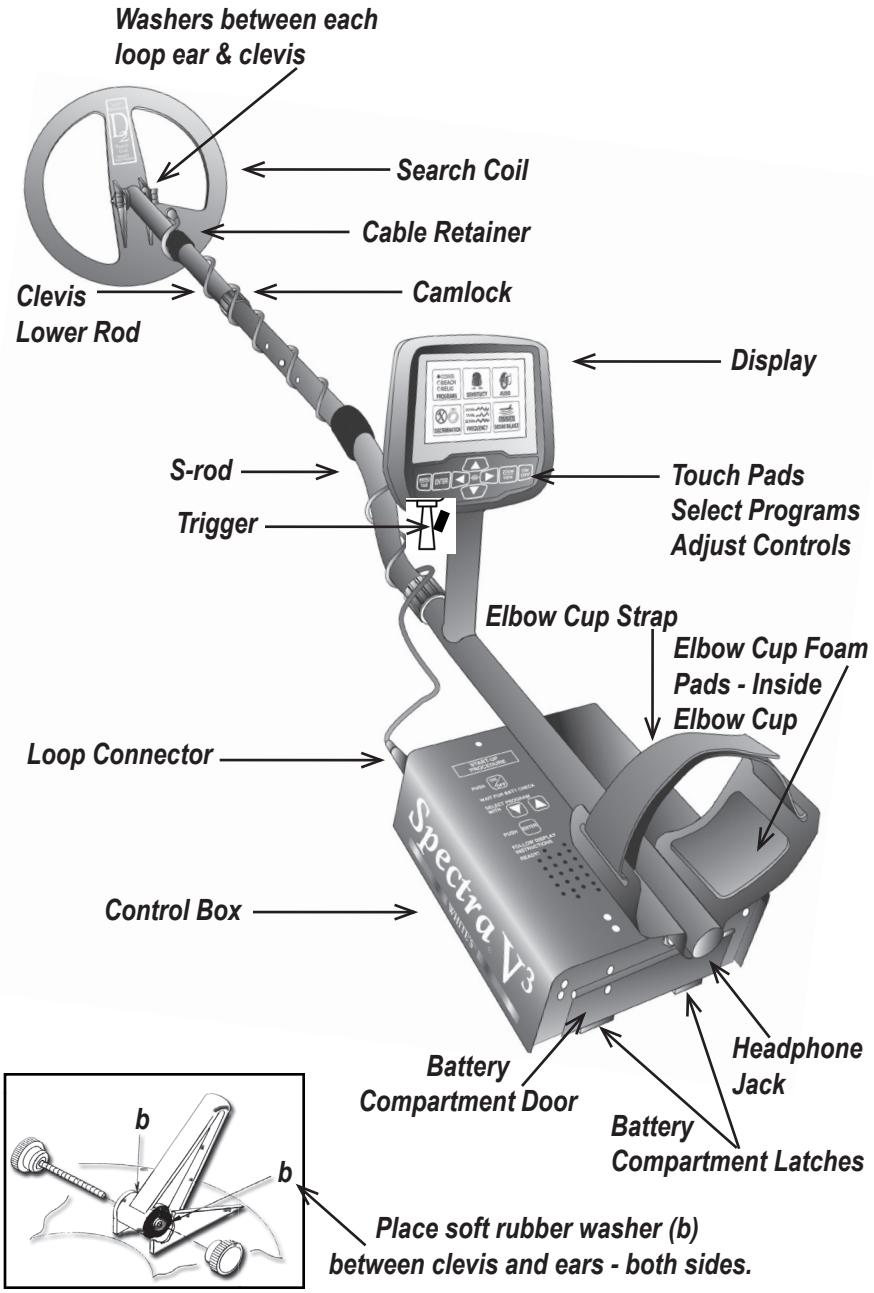
White's Electronics, Inc. -
Manufacturers of the World's Finest Metal Detectors

Spectra™ V3

First Time Out - "Turn On And Go" ...

- Press ON/OFF.
- Optionally… Press ZOOM to select text size.
- Squeeze & release Trigger on the handle grip.
- Hold Trigger & hold ENTER, pump search coil (loop) up and down on the ground until background hum steadies, release ENTER… and then release Trigger and begin searching. (Note releasing Trigger before releasing ENTER) locks Spectra in pinpoint mode, squeeze and release trigger twice to unlock pinpoint.
- Sweep search coil close to the ground, from side to side, overlapping each pass.
- Locate a consistent "BEEP" upon several passes of the search coil.
- Look at display. VDI, Blocks, and ICON, indicate a metal target worthy of digging.
- Pinpoint squeeze & hold toggle on the grip and slowly "X" the area. Depth in inches and maximum bars indicates target center.

ASSEMBLY -


Washers between each loop ear & clevis
Search Coil
Cable Retainer
Clevis
Lower Rod
Camlock
Display
S-rod
Touch Pads
Select Programs
Adjust Controls
Trigger
Elbow Cup Strap
Elbow Cup Foam Pads - Inside Elbow Cup
Loop Connector
Control Box
Battery Compartment Door
Headphone Jack
Battery Compartment Latches
Spectra V3
b
b
Place soft rubber washer (b) between clevis and ears - both sides.

4 Spectra Assembly Guide

ASSEMBLY INSTRUCTIONS -

1. Remove all parts from shipping carton. Check the assembly page to make sure all parts are present.

2. Use the provided rubber washers between clevis/lower rod and loop ears. Use only nonmetallic washers, fiber bolt, and thumbnut to secure loop/search coil to clevis/lower rod.

3. Unlock "S" rod camlock and insert clevis/lower rod into curved "S" rod so that stainless steel spring clip buttons line up and lock into one of the adjustment holes in the curved "S" rod. Turn camlock to secure. The second or third adjustment holes are suitable for average size adults. Individuals 6' or taller should use the fully extended position. Individuals well over 6' tall should purchase the optional Tall Man Fiber Lower Rod #500-0242-3 and/or #500-0240-1 Tall Man Aluminum "S" Rod.

4. Unravel loop cable and wind the cable around the clevis and rod assembly, first revolution over the top of the rod. Wind cable all the way to the top of the curved "S" rod, about five revolutions. Use the black cable retainers, one near the loop, and one near the top of the curved "S" rod, to hold the loop cable in place.

5. Unlock control box rod cam-lock and insert curved "S" rod so that stainless steel spring clip buttons line up and lock into the rod on top of the control box. The "S" rod is designed to curve up toward the display. However, those who prefer to sweep the loop close to their feet may desire to assemble the "S" rod to curve down toward the ground. Turn cam-lock to secure. Plug loop connector into control box, screw lock ring to secure.

6. Grip the instrument by the handle, with your arm in the elbow cup with strap secure, and sweep the loop/search coil over the floor. If the instrument fit feels uncomfortable, adjust the elbow cup by removing and repositioning the bolt/thumbnut and installing in one of the optional positions. If necessary, readjust clevis/lower rod length with the spring clip buttons and cam-lock so that the search coil can be held near the floor without requiring stooping over.

7. Remove the protective paper from the two black elbow cup foam pads. Carefully align pads on the inside of the elbow cup, one on each side of the center rod, and press firmly into place.

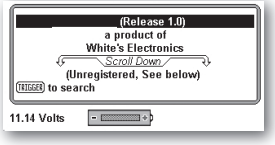
8. Adjust the elbow cup strap so that it is loose enough for you to slide your arm in and out without loosening each time you want to set the detector down. The elbow cup strap provides extra leverage and control. However, some prefer not to use it.

9. Install battery as described in the next section, decal facing down, single larger plastic tab and steel contacts facing toward inside of battery compartment.

10. It should be noted at this point that the Spectra may not work as expected indoors due to the high degree of metals used in modern construction. It is best to tune and practice (outdoors) to ensure stable, predictable results.

11. Your Spectra is designed with an automatic turn OFF if the trigger on the grip (or another control) “is not used” for a period of 30 minutes. This protects the battery from damage (absolute discharge) in case of an accidental turn on during travel or storage. The Spectra will make a specific deep tone musical melody upon automatic turn off. To restart, simply press ON and squeeze and release the trigger on the grip to resume searching. The Spectra returns to pre-turn-off settings.

Batteries

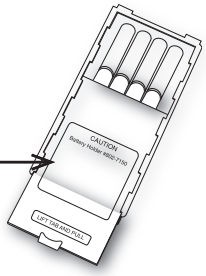


The Spectra is provided with two battery packs. A rechargeable Nickel Metal Hydride (NiMH) battery (Orange Decal) will require an initial 3-4 hour battery charge.

6 Spectra Assembly Guide

To begin using the Spectra immediately, use the back-up “AA” battery pack (Blue Decal).

Blue Decal →



• The standard battery holder (Blue Decal) holds eight “AA” cell batteries. Alkaline batteries are recommended for use with this battery holder.

• Non-alkaline batteries can be used in this holder. When non-alkaline or rechargeable “AA” cells are used, detecting time (before replacement/ recharge) may be reduced or increased depending upon the type of battery used.

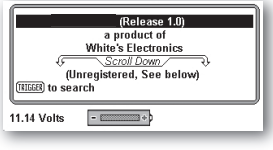
• An ” Unhappy Battery Icon” will automatically appear on the display (lower left status line) when the batteries become too low (8 volts) to properly operate the Spectra.

• A headphone icon with a battery inside indicates the batteries are low in the wireless headphone. See additional status indications on bottom of control box.

• The battery compartment opens by gently pulling down on the front of each of the two latches (on the bottom of the control box) releasing the catch and hinging open the door. The non-rechargeable battery holder can use many different types of batteries, including rechargeable. This holder is designed for standard size “AA” batteries 50 mm ± .10 mm. Battery lengths shorter than this will likely cause problems with this power supply.

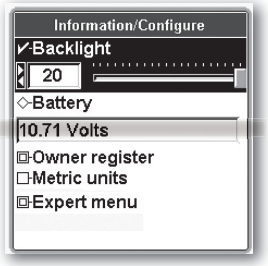
• When the Spectra is turned on the battery voltage will momentarily appear on the opening display (lower left). The degree the battery is filled, toward +, indicates the battery condition. Full Fill = 100% battery life remaining, half fill = 50% battery life remaining.

Battery Voltage Reading →

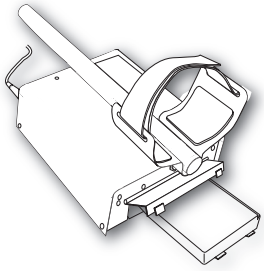


• To recheck the battery voltage during searching, press MENU twice and note battery voltage under BATTERY. Spectra operates correctly between 8 Volts “low battery” and 13 Volts. Squeeze and release Trigger on grip (twice) to

return to searching. Initial battery check voltage may indicate abnormally high. With new Alkaline, or a fresh battery charge, the most accurate battery voltage will be indicated after one hour of use.



Using the Standard Battery Holder



• Slide open the battery holder lid (decal side of battery holder) by applying gentle upward pressure on the single large tab of the door so that it unlocks. Slide the door away from the battery box exposing the cell positions.

• Remove any old cells from the holder. Note the “+” and “-“ positions of each cell and the “+” and “-“ for each position marked inside the cell tray. Install new “AA” cells noting carefully the correct (+) and (-) positions. If any of the cells are installed incorrectly, battery life will be significantly reduced and/or the Spectra may require service by an Authorized Service Center.

• Slide the door closed so that it snaps securely.

• Insert the battery holder into the detector so that the decal is facing down, with the single larger battery holder door tab and metal contact points facing toward the inside of the battery compartment. Close the battery compartment door and secure the two latches on the bottom of the case. Hook the front (nearest the door) of each latch first, and then snap down the rear (furthest from the door).

8 Spectra Assembly Guide

NiMH Rechargeable Battery

• A rechargeable NiMH (Nickel Metal Hydride) battery (Orange Decal) is provided with your Spectra. This battery can be recharged hundreds of times. Full charge can be achieved anytime during the discharge cycle (a non-memory system). The provided “Smart Charger” and “Charging Cradle/Stand” sense the type of charge the battery needs and automatically adjust the charge cycle. From fully low this system provides a full charge in as little as 3-4 hours. A full charge will last ten to twelve hours of normal use. Battery life will vary with temperature, the number of targets found, and the exact settings used. Six hours is not unusual for extreme high performance settings, or for batteries that have experienced extensive use.

• The battery will lose its charge during storage. If stored inserted in your instrument, this loss will be more significant. It is recommended that the battery be removed from the Spectra during periods of storage. It is not advisable to store rechargeable batteries for long periods of time without use (six + months). If extended storage is necessary, store with a charge (charged). If possible, recharge at least once every six months of non-use.

• Do not discharge the battery in devices other than your metal detector. Unnecessary discharging and/or an absolute discharge will reduce battery life and may damage the battery. Unlike older rechargeable battery designs, the rechargeable battery provided with your Spectra can be recharged at any time. Regardless of whether or not it already has a partial charge, memory will not occur.

• White’s has provided the leading edge NiMH rechargeable battery technology with your Spectra. Disregard advice that conflicts with the above recommendations. Care for batteries provided by other manufacturers, or with other White’s models, may vary.

• Do not combine (use) any other battery, or any other battery charger, not specifically designed to work with this system.

• The NiMH battery provided with your Spectra may be subject to recycling laws in your area. It is the right thing to do and is often legally required. If, perhaps many years in the future, you are uncertain as to where to return a

White's NiMH batteries for recycling, please return it to the place of purchase or any White's Electronics Inc. address circling "the recycling" (trash can) portion of the label.

• Charging

NiMH Battery
802-5281
Charge using White's Charger #802-5285. Follow Charging instructions. Not necessary to fully discharge prior to charging.
Protect against shorting. Do not incinerate.
DATE CODE:
Decal #624-0489 Printed in U.S.A.

- Plug the charger into a standard wall outlet. (110 volts for USA models, 220 volts for UK models).

- To charge, insert the battery into the cradle / stand (only fits one way) plug the charger plug into the back of the cradle / stand. Green light should glow.

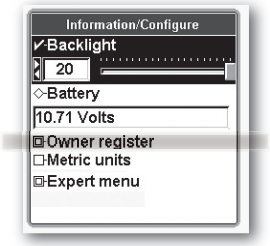
- Green and Red Lights ON indicate battery and charger have made a good connection and the battery is charging. The battery charger is designed to charge a completely low battery in as little as 3-4 hours. However, no harm will come to the system leaving it charging for several days (automatic trickle charge).

- Red Light OFF, Green Light ON indicates battery is now fully charged and ready for use and will now simply maintain the full charge indefinitely. It is normal for the battery and charger to get warm during use. However, if either the battery or the charger gets too hot to hold or deforms due to the heat, discontinue use and return for testing.

- When using fresh batteries, the voltage will initially check somewhere in the 10 to 13 volt area. Unlike standard batteries, the rechargeable battery voltage will quickly drop somewhere between 9 and 11 volts and plateau there for most of its life. Once the rechargeable battery voltage drops below this plateau, it will quickly drop below a usable voltage level (8 volts) and thus require a recharge. "Unhappy Battery Icon" will automatically appear on the display when the battery approaches 8 volts. It is recommended to either recharge or switch to "AA" pack when occasional unhappy battery starts to appear (flash) on display. With a consistent unhappy battery, Spectra will not be operating properly and will soon entirely cease to operate.

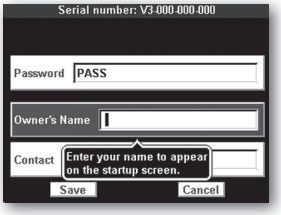
10 Spectra Assembly Guide

Owner Registration



How to Access – To access Information / Configure press MENU twice in succession. Arrow down to Owner Registration and press ENTER. To Exit squeeze and release trigger on hand grip twice

Owner Registration – Allows the Spectra owner to embed their name and contact information, protected from tampering, but updateable with original factory code.



• Select Owner Register and press ENTER. Press MENU / TAB to select Register and press ENTER.

• Password – IMPORTANT! Write down the password or code that automatically appears and keep it in a safe place separate from your Spectra… (Password code will disappear, and must be manual re-entered, after first registration). If you normally keep your instruction manual at home, write it on the inside cover of the manual. Should you ever change addresses or sell your Spectra, this code must be retained and manually re-entered to update or revise your Spectras registration information. To detour theft, without this original disappearing code, significant inconvenience can be expected regarding re-setting the Registration information.

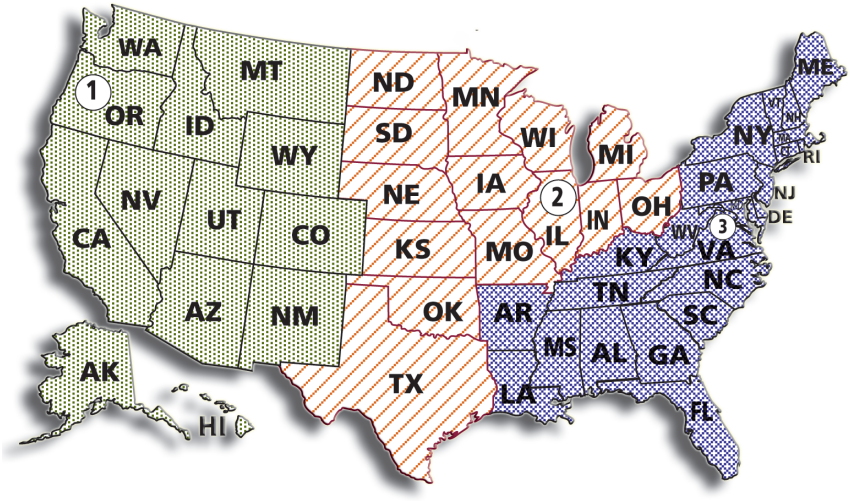
Owner's Name – Use the ARROWs Down / Up, and Left / Right to spell out your name. Or press ENTER to bring up a key-board and then use ARROWs and ENTER to spell out your name.

• Select and ENTER blanks to add spaces. If you make an error, to redo that digit, squeeze and release trigger, ARROW back to that digit, and press ENTER to bring the Keyboard back, then redo that digit.

Contact - Press MENU / TAB to exit Name and select Contact. Type out your contact information using ARROWs, or pressing Menu to bring up the keyboard then ARROWs and ENTER.

SAVE – Use MENU / TAB to select SAVE, press ENTER to SAVE your Registration.

USA / Australian Service Centers



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Fax (541) 367 6629
Tmarshall@whiteselectronics.com

3. ***Centreville Electronics***
10063 Wellington Rd.
Manassas, Va. 20110
(888) 645-0202
(703) 367-7999
(703) 367-0868 FAX
bob@cwrelics.com

2. ***Electronic Exploration***
575 West Harrison
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White's reputation has been built on quality products backed by quality service. Our Factory Authorized Service Centers are factory trained and equipped. They offer the same quality service as the factory. Service before and after the sale is the cornerstone of our customer relations.

a. Contact your Dealer. There may be a quick, simple fix or explanation that will prevent having to send the detector in for service.

b. Double check the obvious, such as batteries, and try the detector in another area to be sure there isn't interference.

c. Be sure to send all necessary parts with your detector, such as batteries and holders, as these items can result in symptoms.

Before shipping detectors for service -

- Always include a letter of explanation about your concerns, even if you have talked to the Service Center by telephone.
- Take care in packaging instruments for shipping. Always insure your package.

(USA) Warranty

If within two years (24 months) from the original date of purchase, your White's detector fails due to defects in either material or workmanship, White's will repair or replace at its option, all necessary parts without charge for parts or labor.

Simply return the complete detector to the Dealer where you purchased it, or to your nearest Authorized Service Center.

The unit must be accompanied by a detailed explanation of the symptoms of the failure. You must provide proof of date-of-purchase before the unit is serviced.

This is a transferable manufacturer warranty, which covers the instrument two years from the original purchase date, regardless of the owner.

Items excluded from the warranty are non-rechargeable batteries, accessories that are not standard equipment, shipping/handling costs outside the continental USA, Special Delivery costs (Air Freight, Next Day, 2nd Day, Packaging Services, etc.) and all shipping/handling costs inside the continental USA 90 days after purchase.

White's registers your purchase only if the Sales Registration Card is filled out and returned to the factory address soon after original purchase for the purpose of recording this information, and keeping you up-to-date regarding White's ongoing research & development.

The warranty does not cover damage caused by accident, misuse, neglect, alterations, modifications, unauthorized service, or prolonged exposure to corrosive compounds, including salt.

Duration of any implied warranty (e.g., merchantability and fitness for a particular purpose) shall not be longer than the stated warranty. The manufacturer nor the retailer shall be liable for any incidental or consequential damages. Some states however, do not allow the limitation on the length of implied warranties, or the exclusion of incidental or consequential damages. Therefore, the above limitations may not apply to you.

In addition, the stated warranty gives you specific legal rights, and you may have other rights, which vary from state-to-state.

The foregoing is the only warranty provided by White's as the manufacturer of your metal detector.

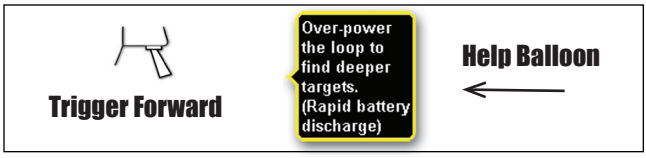
Any "extended warranty" period beyond two years, which may be provided by a Dealer or other third party on your detector, may be without White's authority, involvement and consent, and might not be honored by White's.

USA Warranty Transfer

If for any reason you should sell your Spectra prior to the date the warrant expires, the remaining warranty is transferable. Call 1-800-547-6911, and get an Authorization Number to authorize this transfer.

First Aid

• **Help Balloons -** From menu screens and Zoom menus, trigger forward - brings up a ***"Help Balloon"*** that offers more information about the menu item.



• **COMPLETE OWNER'S GUIDE -** All of Spectra's systems and controls are explained in complete detail.

• **DVD -** A short DVD designed to visually familiarize and instruct.

• **Website/Forum -** Ask questions, comment and share your experiences with White's Spectra owners at White's Website Forum: www.whiteselectronics.com.

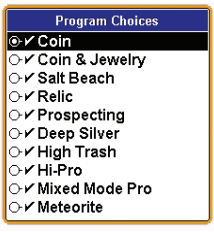
• **Live Help -** Consult your local Dealer or contact White's Authorized Regional Distributor at 1-800-547-6911. ***We will be happy to help!***

NOTE -

Explore your Spectra metal detector with complete confidence.
You cannot harm or destroy the original factory presets or software.
Original programs are easily restored!

TO RESTORE FACTORY PROGRAMS

FROM



▼ to RESTORE - Press ENTER

Use ▲▼ to select program. Use MENU TAB to highlight RESTORE Press ENTER

Selected program displays checkmark and is restored to factory settings.

- Wireless Headphone "enable on/off setting is ***NOT*** changed by "Restore".
- Removing battery does NOT restore factory programs.

White's Spectra™ V3

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- White's Spectra Metal Detectors -
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Sweet Home, Oregon USA

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